

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

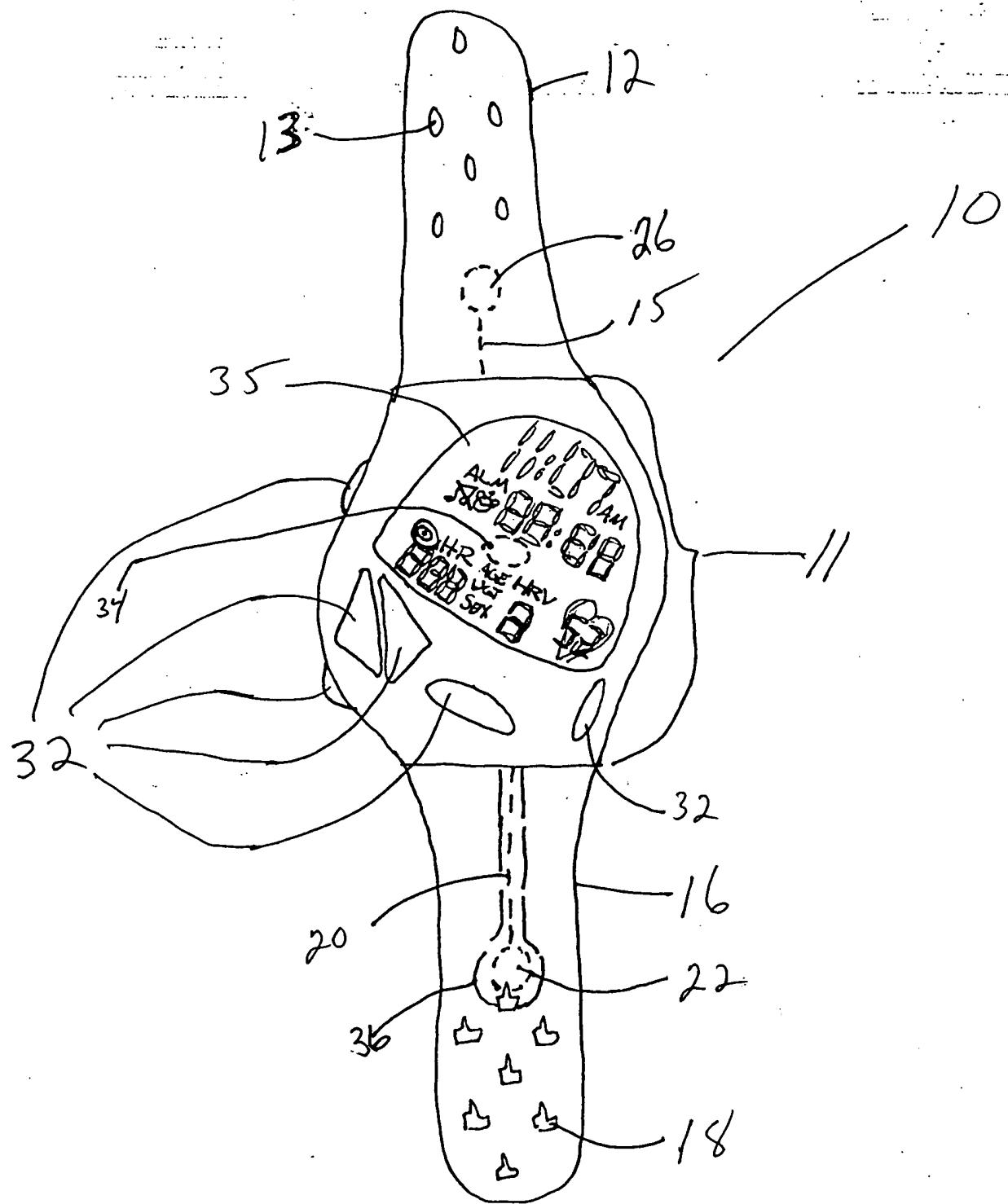


FIG 1

Back of the  
device/watch

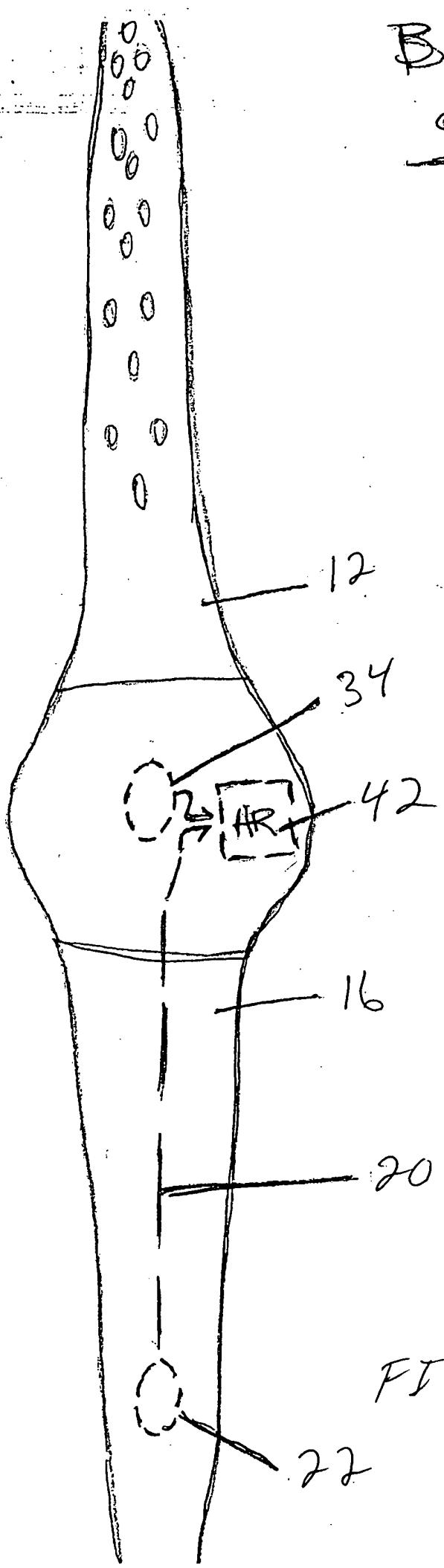
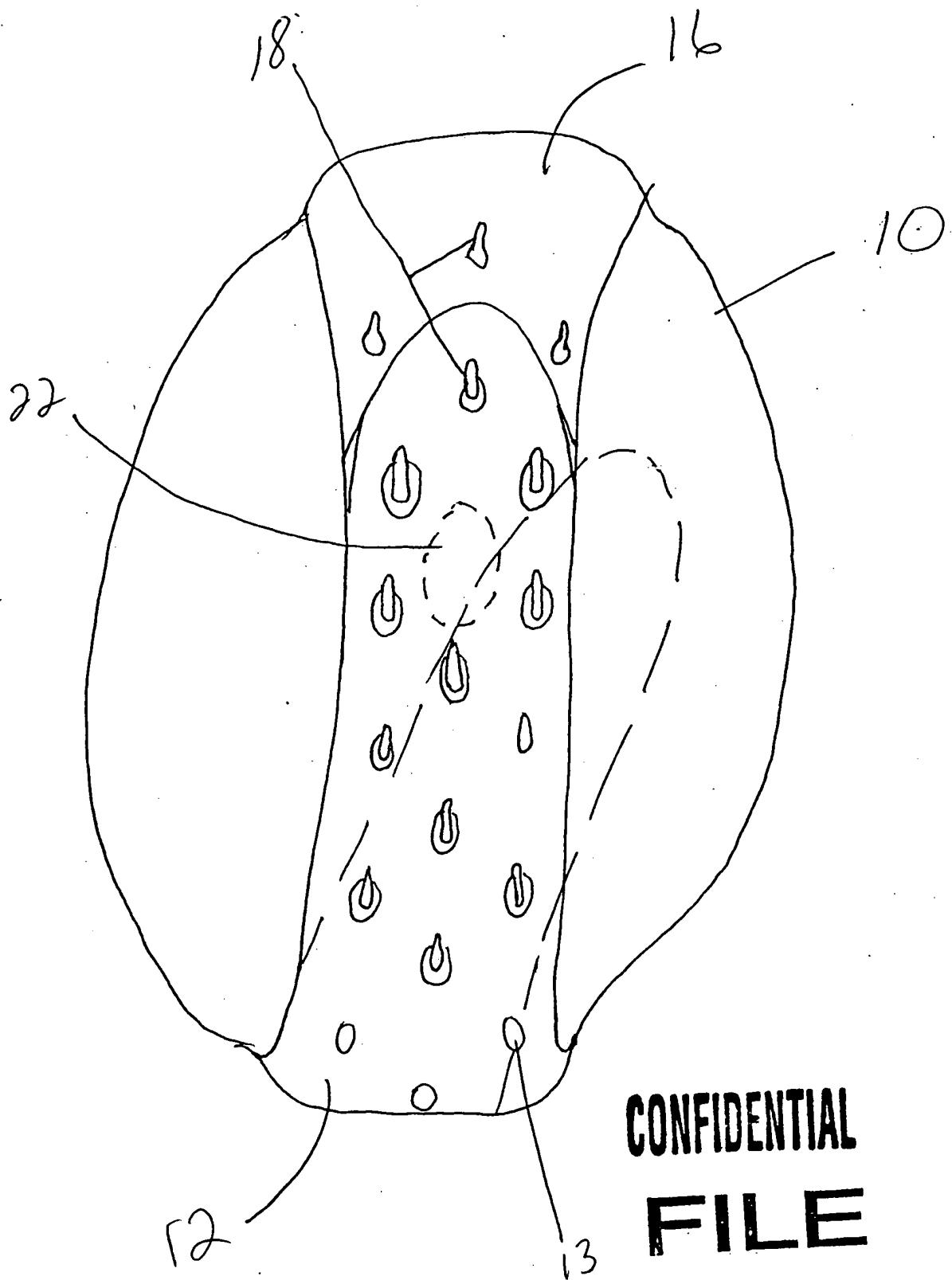


FIG 2

**CONFIDENTIAL**

**FILE**



**CONFIDENTIAL  
FILE**

FIG 3

10

2 3 2 3 2 3

22

34

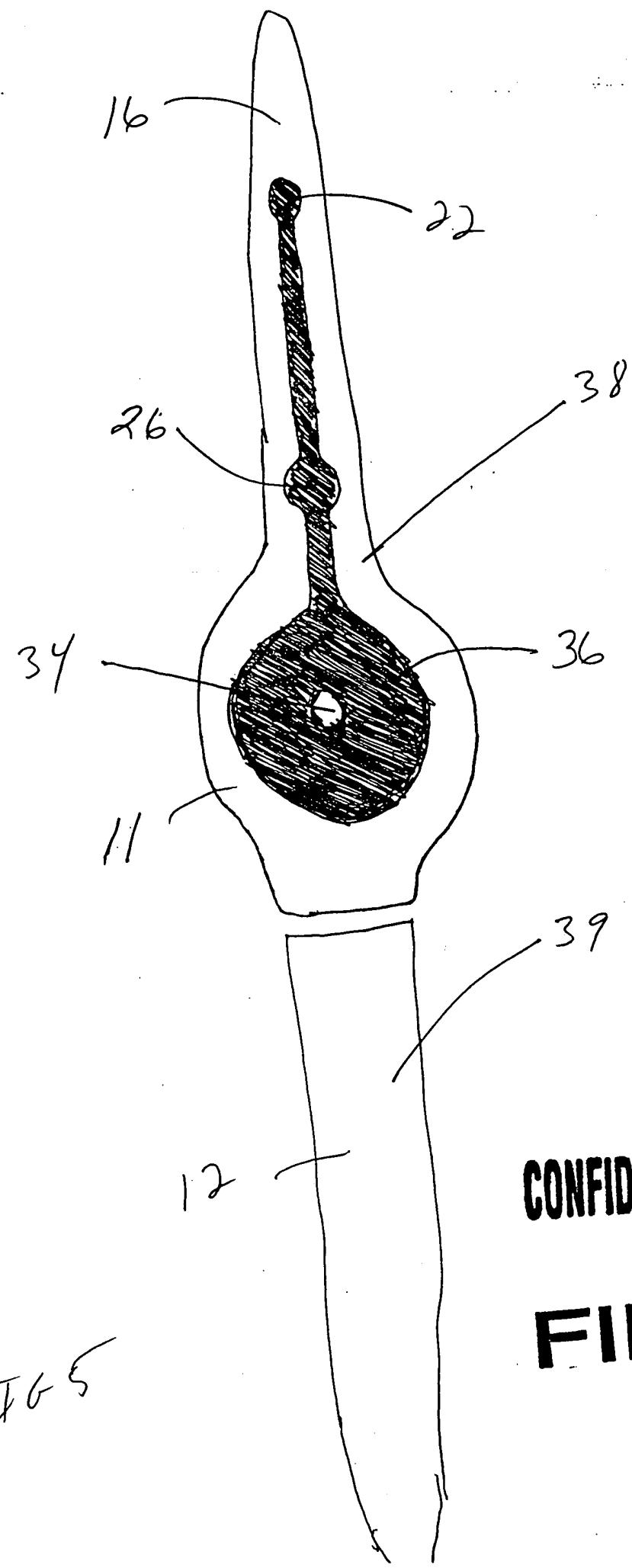
36

26

12

~~CONFIDENTIAL~~

FT 64



**CONFIDENTIAL**

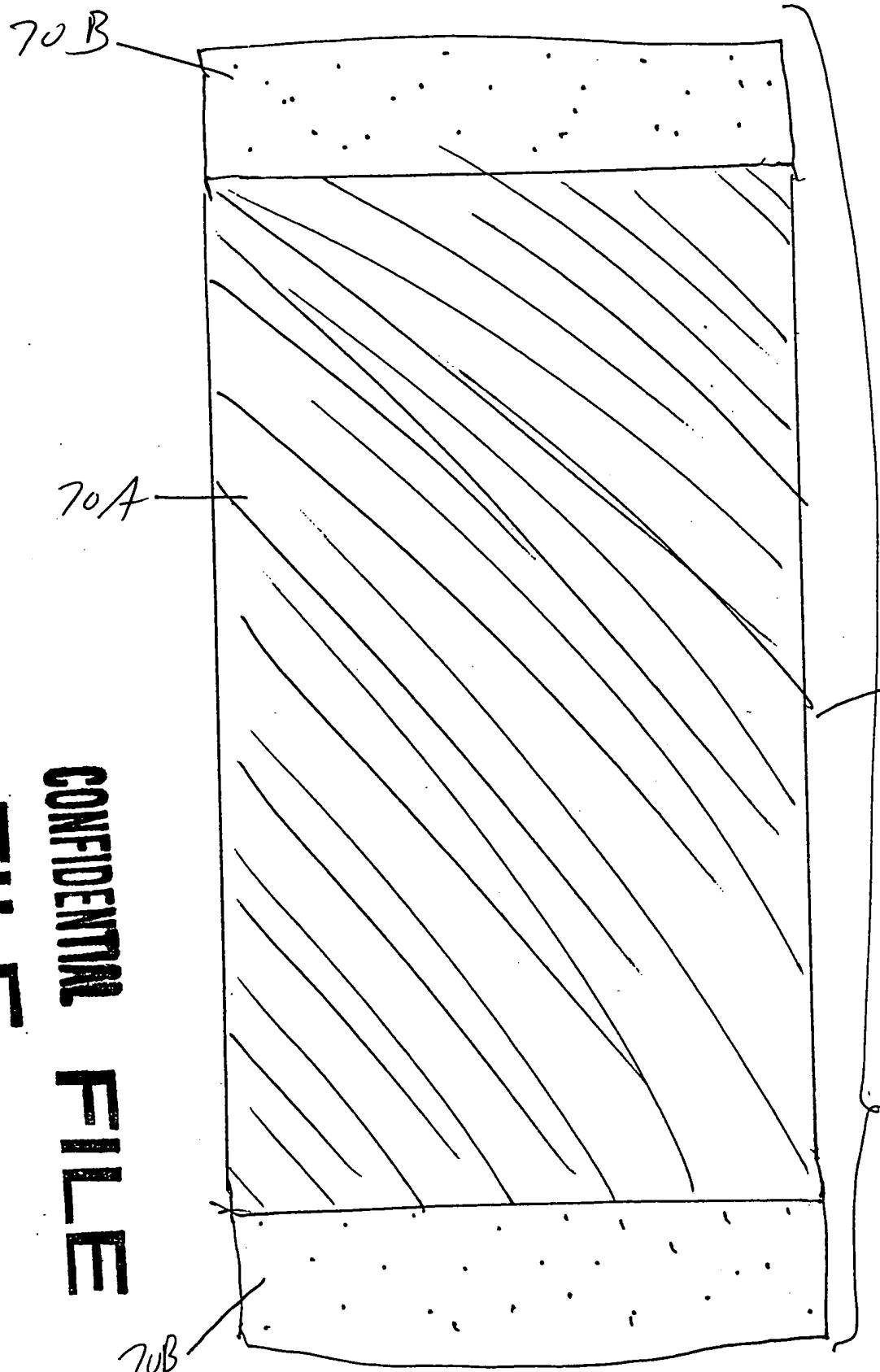
**FILE**

FIG 5

**FILE FILE**

**CONFIDENTIAL**

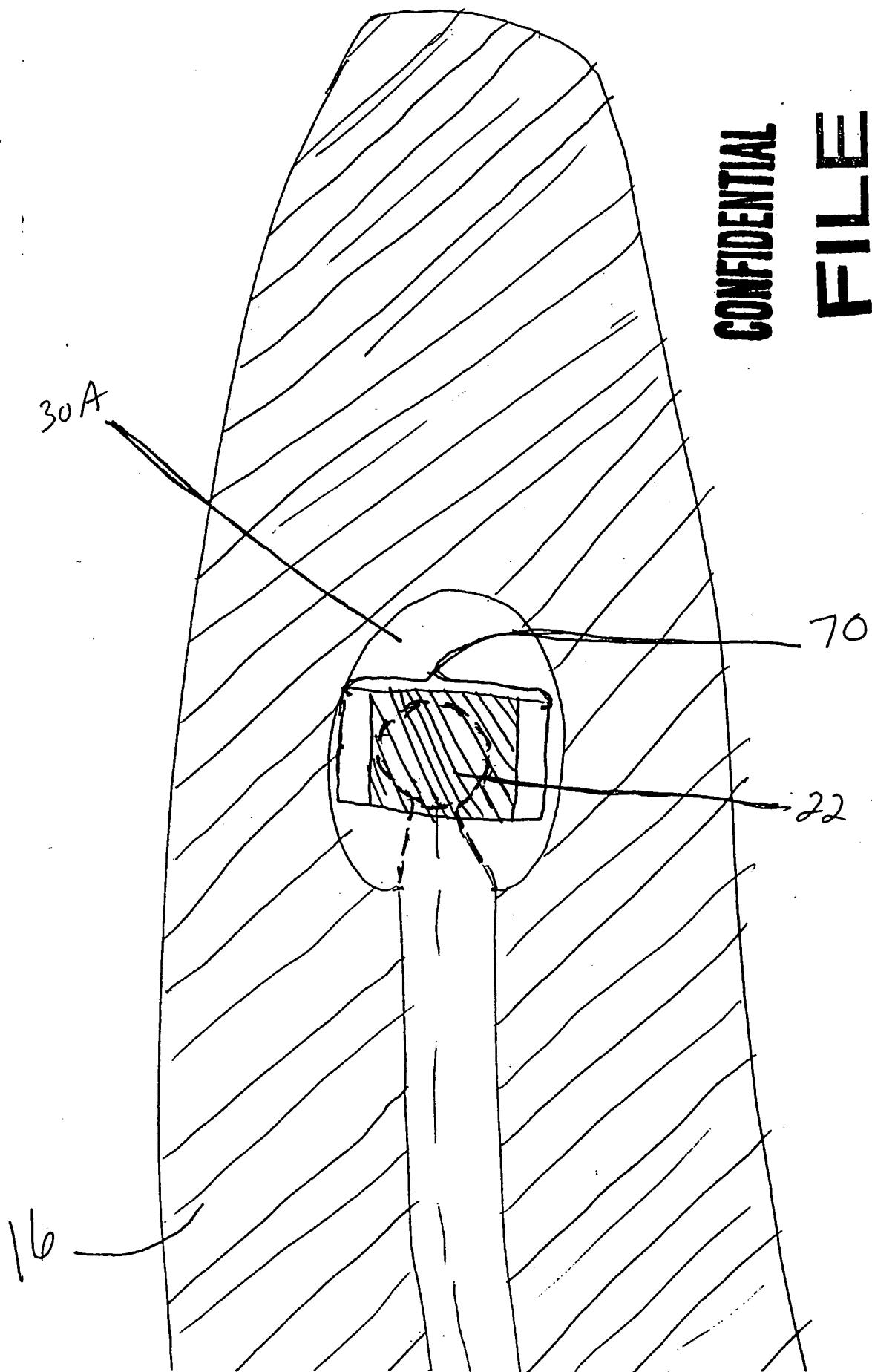
PTL



70

**CONFIDENTIAL**

**FILE**



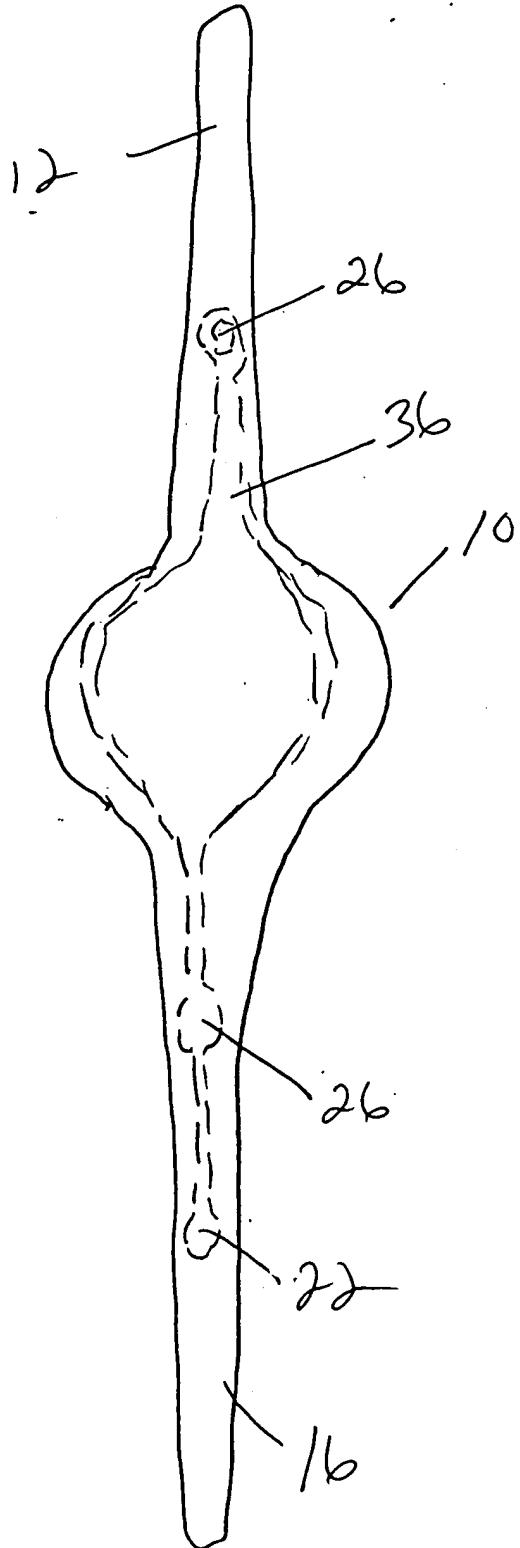


FIG 8A

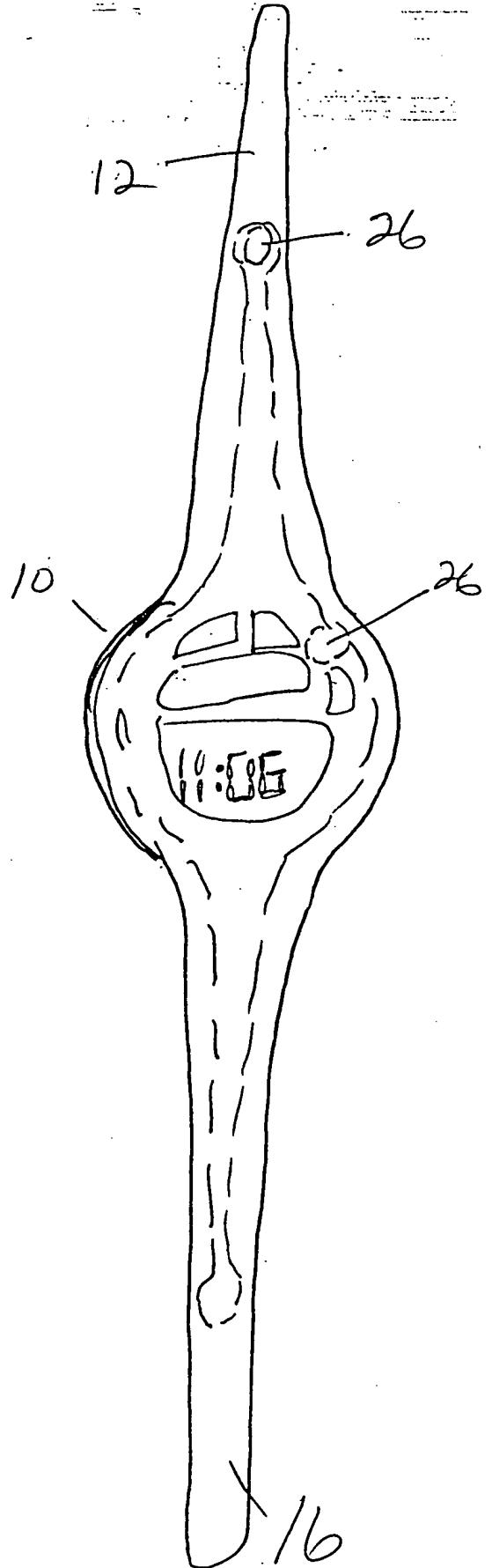
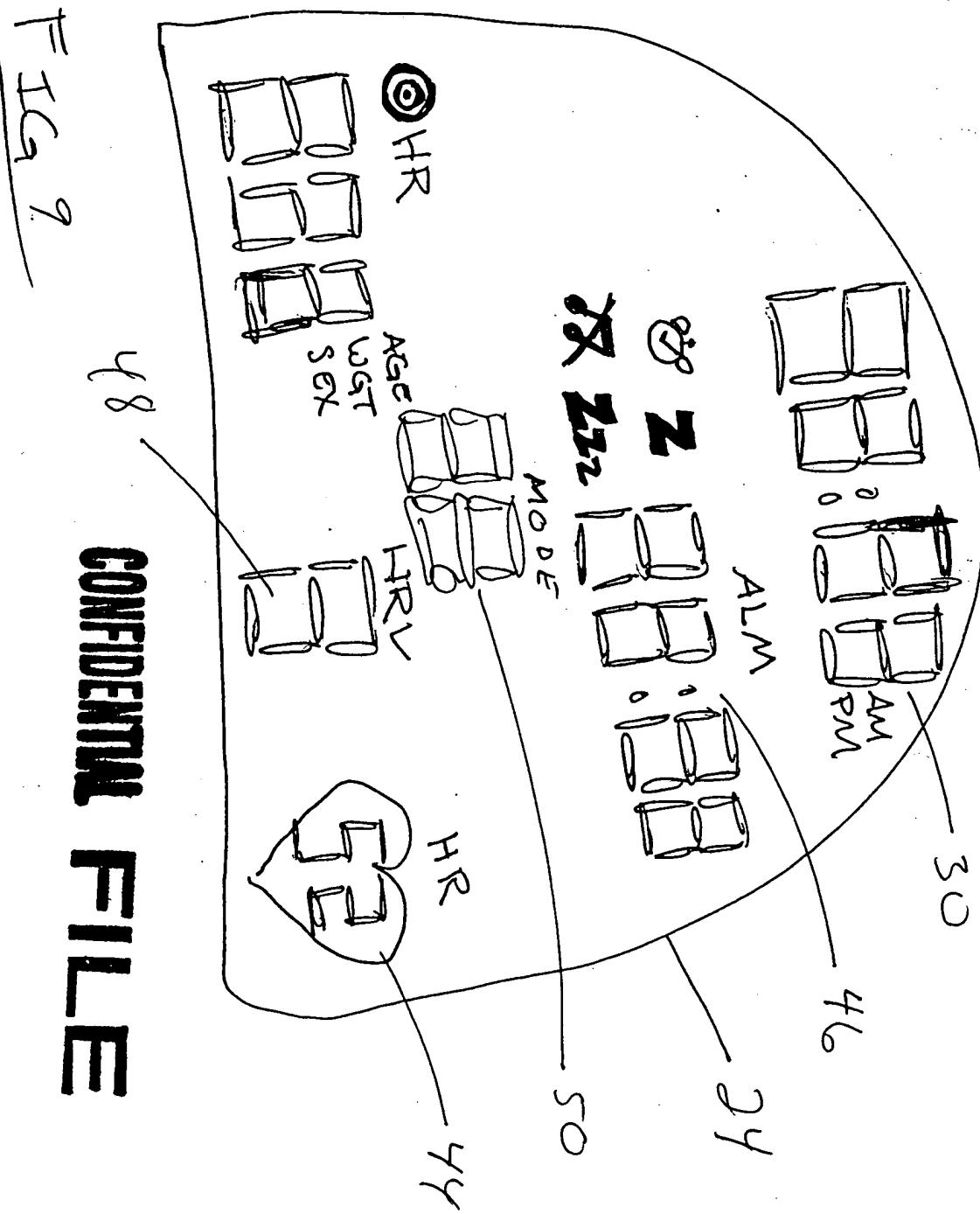


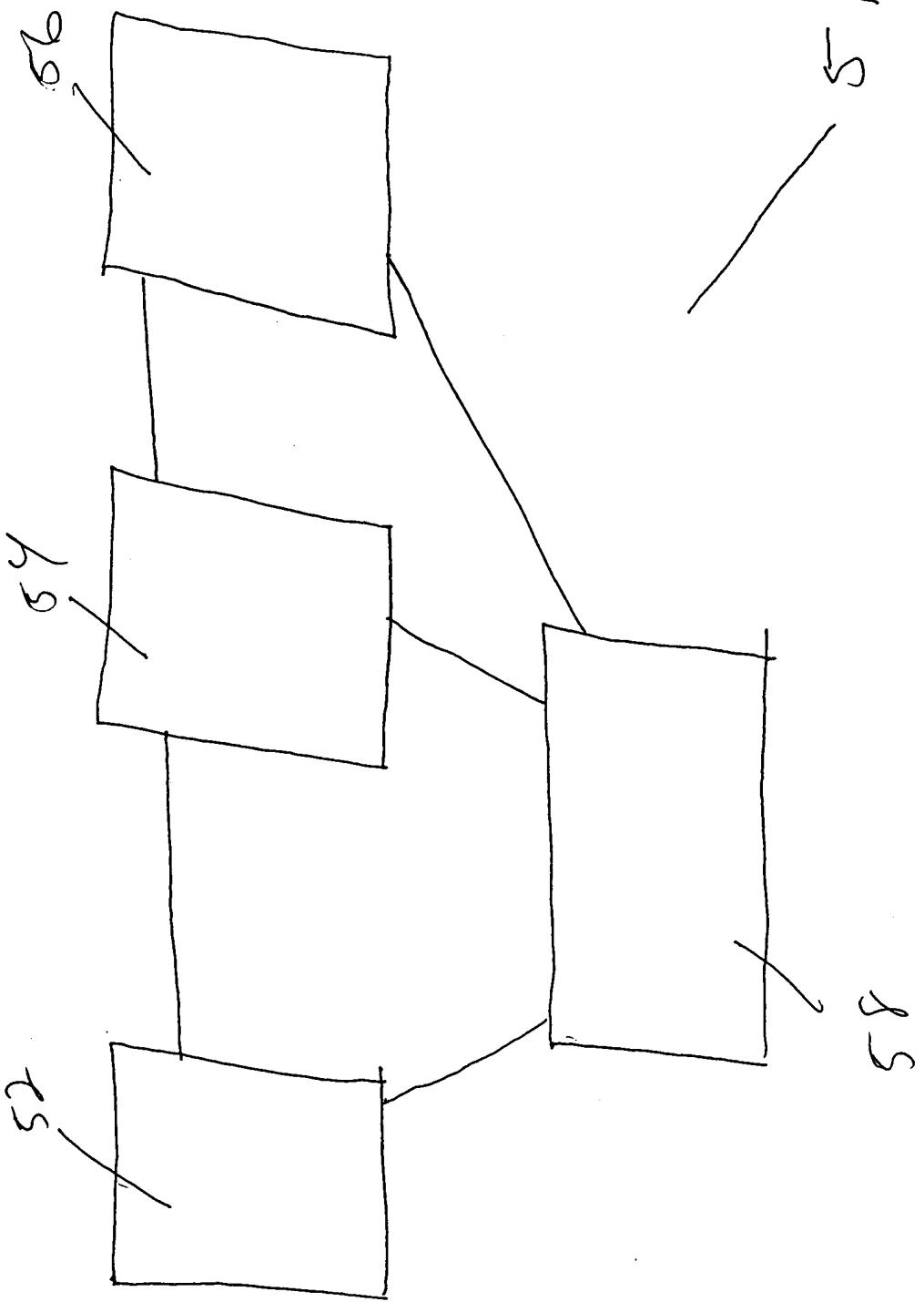
FIG 8B

**CONFIDENTIAL**

**FILE**

**CONFIDENTIAL FILE**





FTG 10

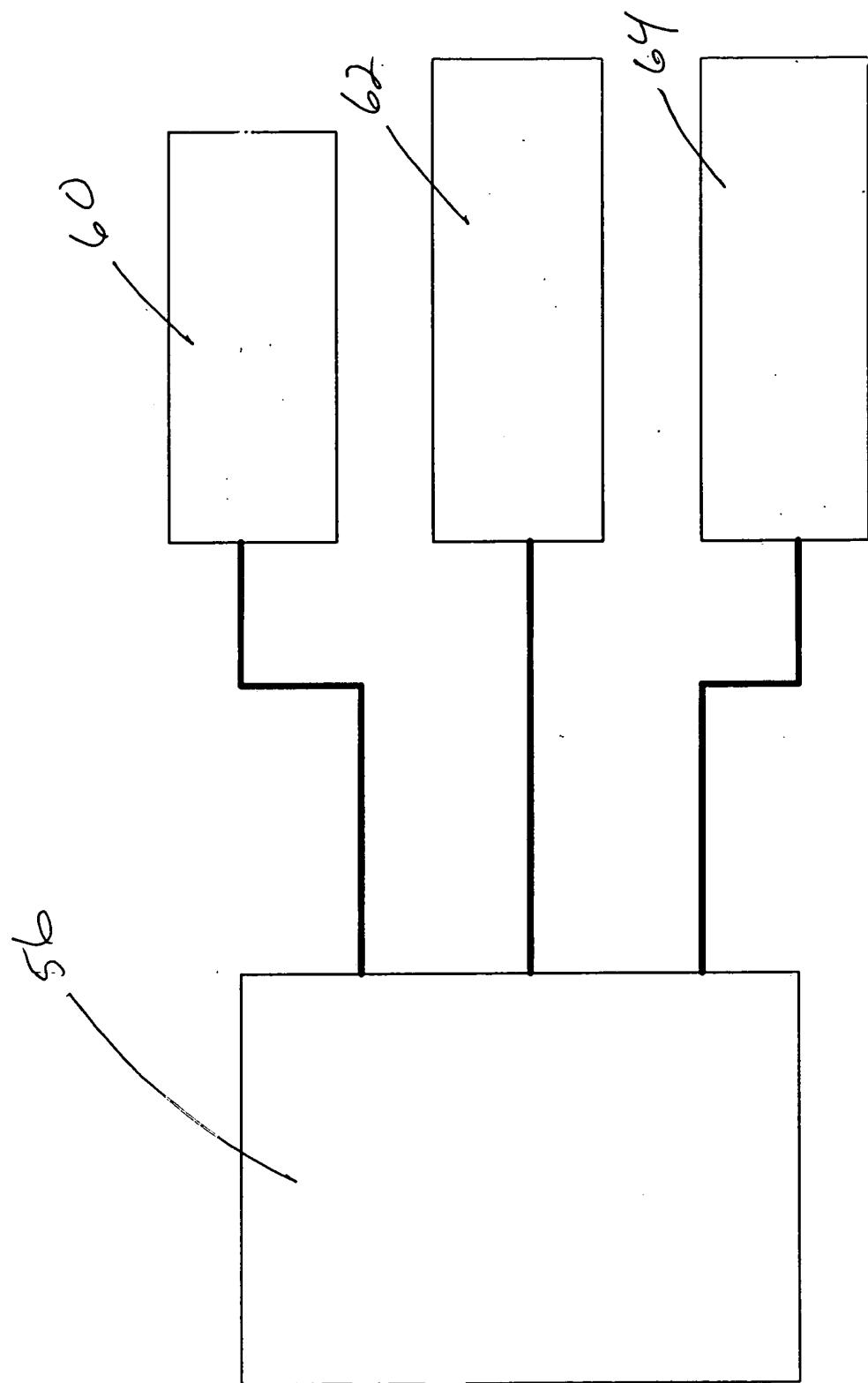


FIG 11

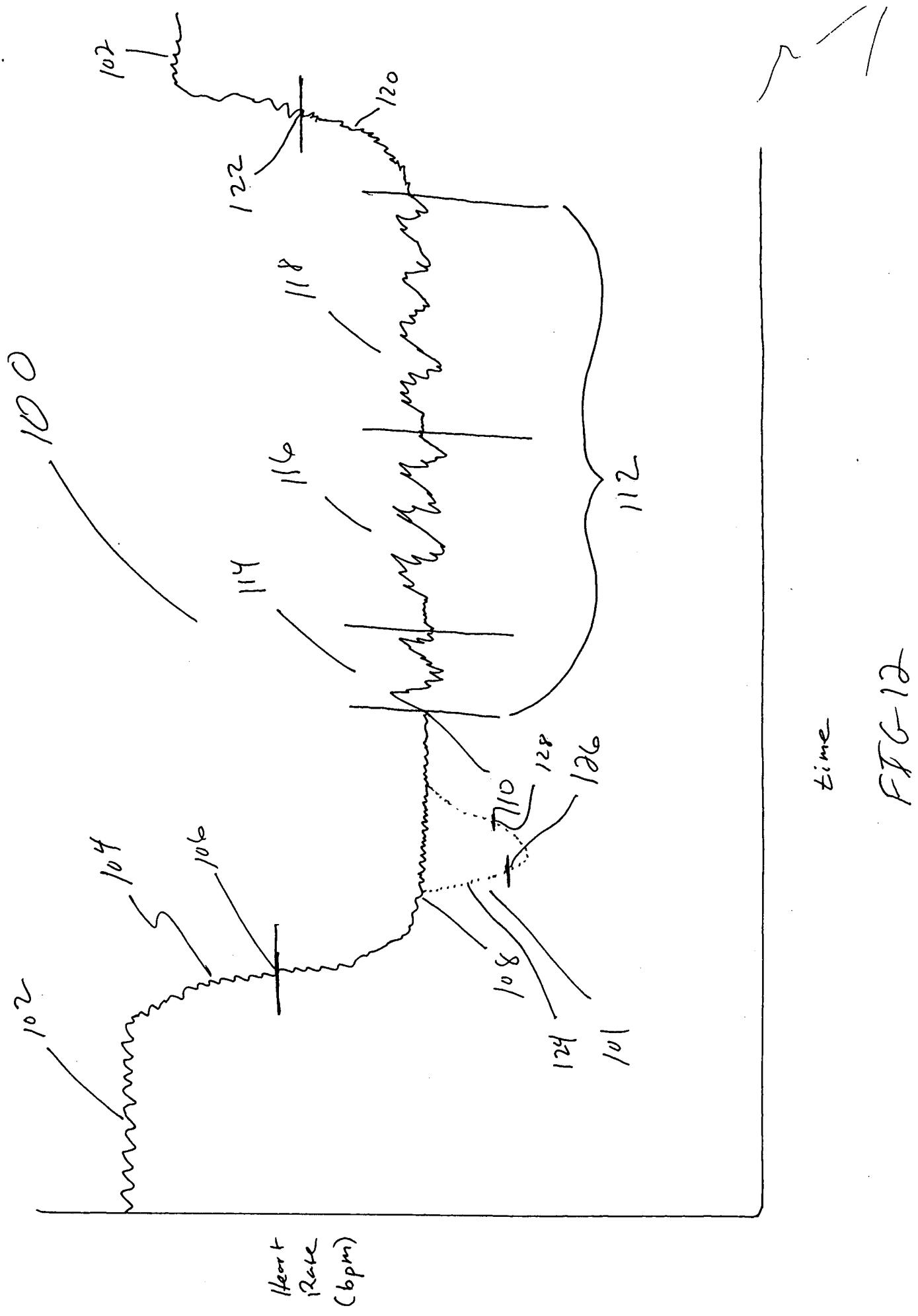
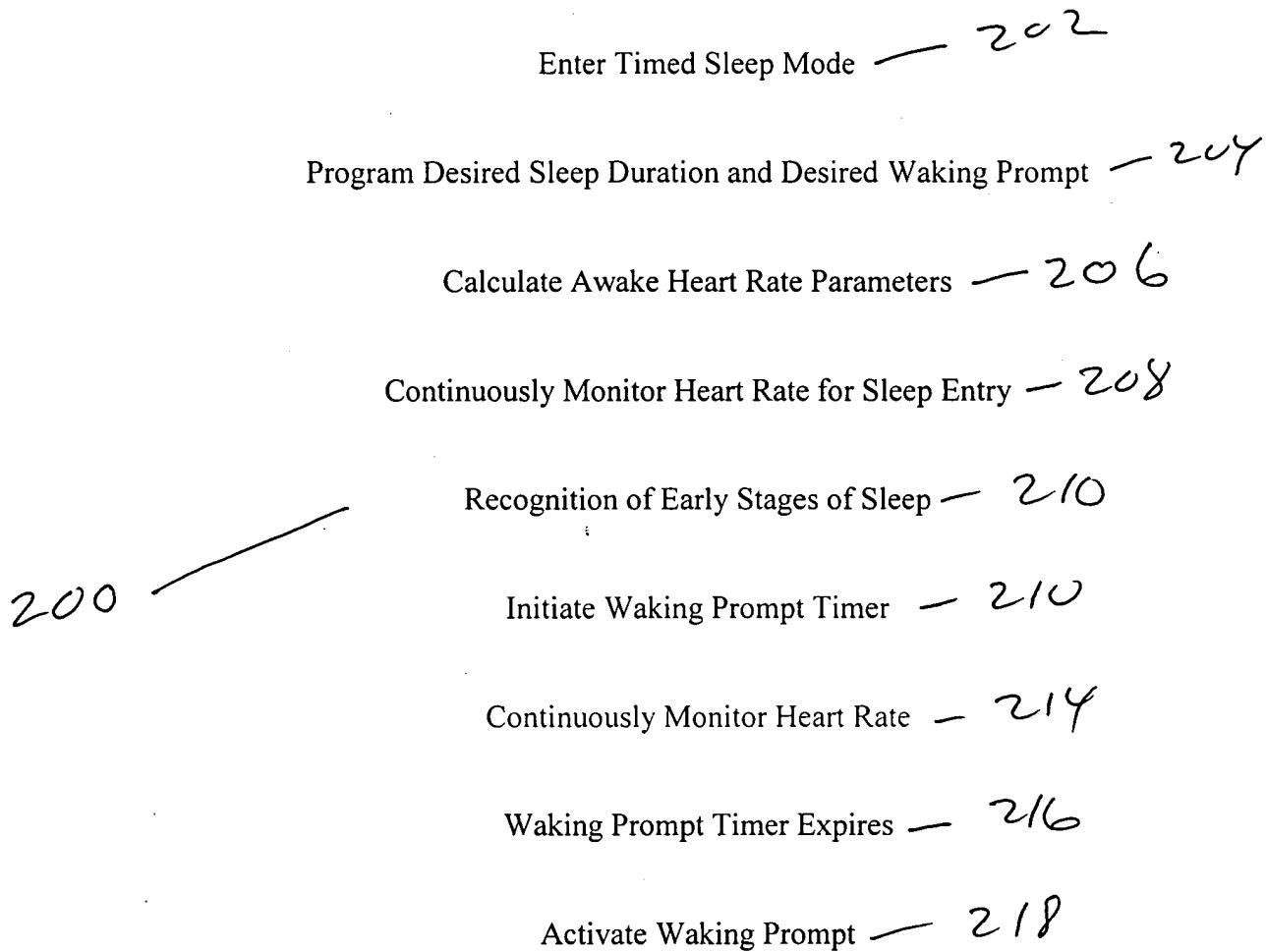


FIG 12



**FIG 13**

300

Enter REM Cycle Timed Sleep Mode — 302

Program Desired REM Sleep Duration and Desired Waking Prompt — 304

Calculate Awake Heart Rate Parameters — 306

Continuously Monitor Heart Rate for Awake Exit and non-REM Sleep Entry — 308

Recognition of Awake Exit and non-REM Sleep Entry — 310

Calculate non-REM Sleep Entry Parameters — 312

Continuously Monitor Heart Rate for non-REM Sleep Exit and REM Sleep Entry — 314

Recognition of non-REM Sleep Exit and REM Sleep Entry — 316

325

Calculate REM Sleep parameters — 320

Continuously Monitor Heart Rate for REM Sleep Cycle Completion — 322

Recognition of REM Sleep Cycle Exit — 324

Waking Prompt Activated — 326

FIG 14

Enter Timed Sleep Mode — 402

Calculate Awake Heart Rate Parameters — 408

Continuously Monitor Heart Rate for Awake Exit and non-REM Sleep Entry — 410

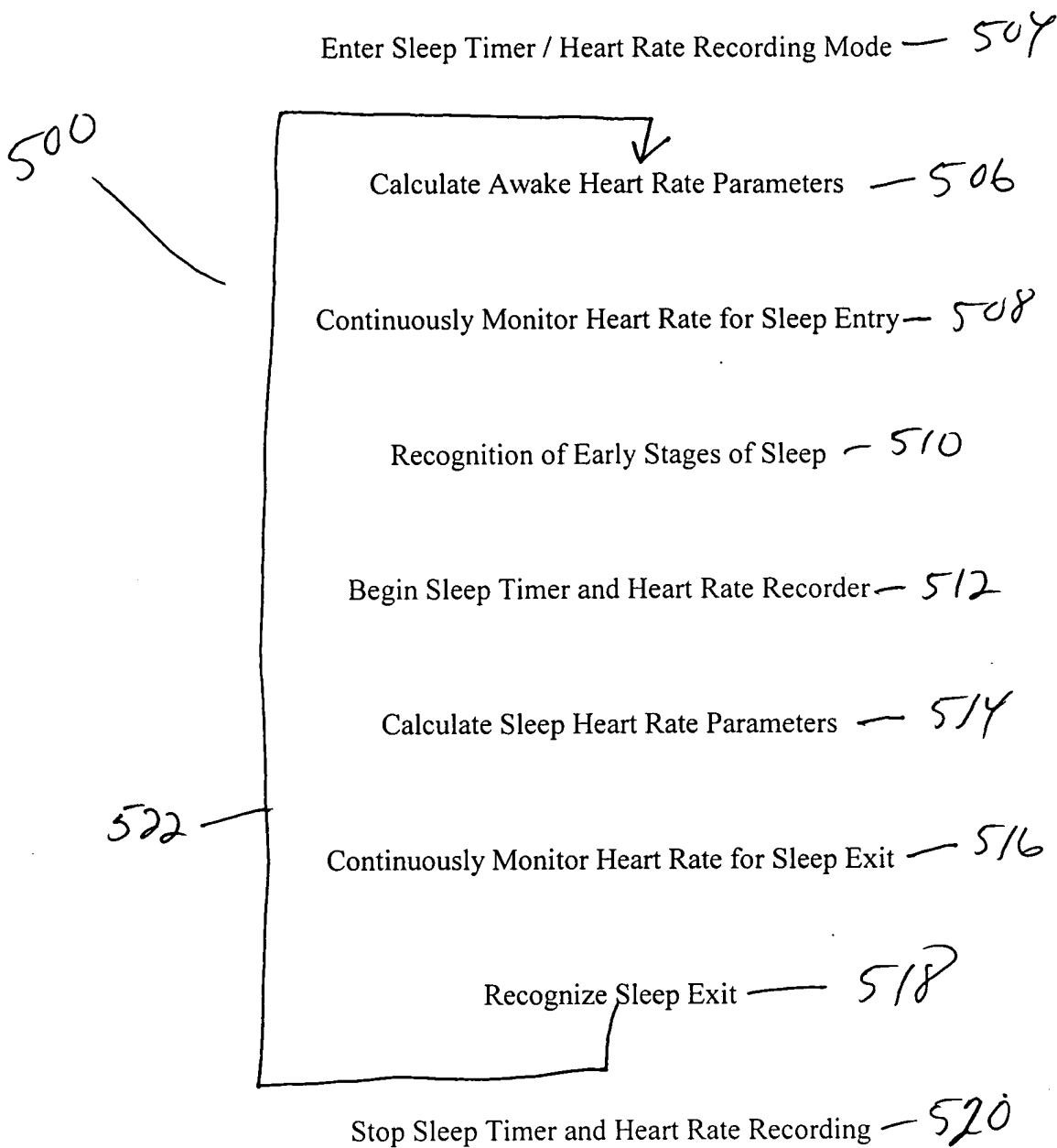
Recognition of Awake Exit and non-REM Sleep Entry — 412

Calculate non-REM Sleep Entry Parameters — 416

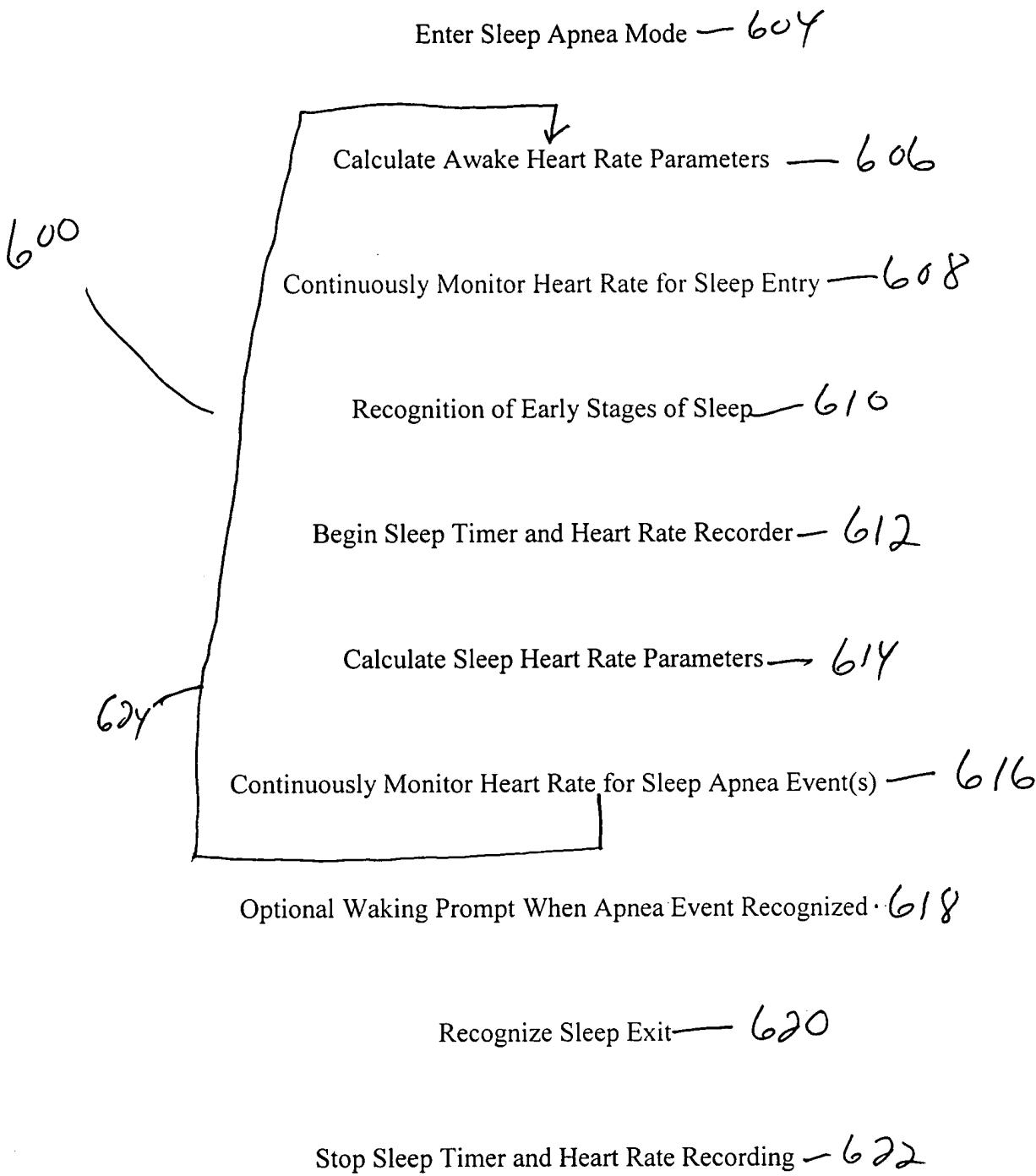
Continuously Monitor Heart Rate for non-REM Sleep Exit and REM Sleep Entry — 418

Recognition of non-REM Sleep Exit and REM Sleep Entry — 420

Activate Waking Prompt — 422



**FIG 16**



**FIG 17**

Integrate Heart Rate Monitor With Home Control Unit and Central Home Computer — 700

Enter Remote Home Control Mode — 704

Home in Wake Mode — 708

Calculate Awake Heart Rate Parameters — 710

Continuously Monitor Heart Rate for Sleep Entry — 712

Recognition of Early Stages of Sleep — 714

Transmit Signal to Home Control Receiver(s) and, in turn, to Central Home Computer — 716

Central Home Computer Places Home in Sleep Mode — 718

Calculate Sleep Heart Rate Parameters — 720

Continuously Monitor Heart Rate for Sleep Exit — 722

Recognize Sleep Exit — 724

Transmit Wake Signal to Home Control Receiver(s) and, in turn, to Central Home Computer — 726

Central Home Computer Places Home in Wake Mode — 728

**FIG 18**